



**2014-2015 PETITION/PROGRAM SHEET**  
**Degree: Bachelor of Arts**  
**Major: Liberal Arts, Elementary Teaching**  
**Concentration: Mathematics**

**About This Major . . .**

The Center for Teacher Education offers a comprehensive program of study that leads to licensure in Colorado. Our professors are experienced, knowledgeable, accessible, and dedicated to the improvement of public education. At Colorado Mesa, we pride ourselves on the personal touch. Faculty offer one-on-one guidance for course selection, field placements, student teaching, and employment. Our mission is to develop *Educators as Innovators*; we are always looking to improve the quality of learning in our programs and K-12 schools.

As a student, you will gradually accumulate over 200 hours of classroom experience before beginning student teaching. School districts throughout western Colorado provide opportunities to gain experience with children of all ages and backgrounds in a variety of school settings.

The elementary licensure program provides teacher education candidates with a broad content knowledge and prepares them as teachers for grades kindergarten through six. A minimum of 60 credit hours of general education and content area coursework must be completed with a minimum GPA of 2.80 before a candidate may apply for admission to the Center for Teacher Education elementary licensure program. Please see the Teacher Education Admission Packet for further information on admissions criteria. EDUC 211, *Foundations of Education*, must be taken before applying to the program.

For more information on what you can do with this major, go to <http://www.coloradomesa.edu/career/whatmajor.html>.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate familiarity with the logical and historical development of mathematics and the implications of this development. (Specialized Knowledge)
2. Demonstrate a deep and coherent proficiency in the mathematics underlying elementary curricula. (Quantitative Fluency)
3. Effectively communicate mathematics using oral and written exposition appropriate for teachers of mathematics. (Communication Fluency)
4. Reason mathematically and communicate precisely using clear definitions, appropriate symbols, correct units of measure with an appropriate degree of precision, proper labels, and coherent chains of logic. (Applied Learning)
5. Instruct K-12 students based on self-written learning plans to address individual learning and developmental patterns. (Specialized Knowledge)
6. Design a safe and supportive learning environment for elementary and secondary education students. (Applied Learning)
7. Apply content knowledge while working with learners to access information in real world settings assuring learner mastery of the content. (Specialized Knowledge)
8. Integrate assessment, planning, and instructional strategies in coordinated and engaging ways through multiple means of communication. (Critical Thinking/ Communication Fluency)
9. Engage in meaningful and intensive professional learning and self-renewal by regularly examining practice through ongoing study, self-reflection, and collaboration. (Applied Learning)

**NAME:** \_\_\_\_\_ **STUDENT ID #** \_\_\_\_\_

**LOCAL ADDRESS AND PHONE NUMBER:** \_\_\_\_\_

\_\_\_\_\_ ( ) \_\_\_\_\_

I, (Signature) \_\_\_\_\_, hereby certify that I have completed (or will complete) all the courses listed on the Program Sheet. I have read and understand the policies listed on the last page of this program sheet. I further certify that the grade listed for those courses is the final course grade received except for the courses in which I am currently enrolled and the courses which I complete next semester. I have indicated the semester in which I will complete these courses.

\_\_\_\_\_  
Signature of Teacher Education Advisor \_\_\_\_\_ 20\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Content Advisor \_\_\_\_\_ 20\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Department Head \_\_\_\_\_ 20\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Registrar \_\_\_\_\_ 20\_\_\_\_\_  
Date

**Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration.**

**Degree Requirements:**

- 125-126 semester hours total (Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher).
- 40 upper division credits (A minimum of 15 taken at the 300-400 course levels within the major at CMU).
- 2.80 cumulative GPA or higher in all CMU coursework
- 2.80 cumulative GPA or higher in coursework toward the major content area
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- A cumulative grade point average of 2.8 or higher must be maintained for -content courses-and overall GPA. A grade of B or better is required for all EDUC courses.
- A student must follow the CMU graduation requirements either from 1) the program sheet for the major in effect at the time the student officially declares a major; or 2) a program sheet for the major approved for a year subsequent to the year during which the student officially declares the major and is approved for the student by the department head. Because a program may have requirements specific to the degree, the student should check with the faculty advisor for additional criteria. It is the student's responsibility to be aware of, and follow, all requirements for the degree being pursued. Any exceptions or substitutions must be approved by the student's faculty advisor and Department Head.
- Foreign language proficiency must be demonstrated by high school coursework (2 years), college coursework (2 semesters), or competency testing.
- When filling out the program sheet a course can be used only once.
- See the "Undergraduate Graduation Requirements" in the catalog for additional graduation information.
- Students must PASS the PLACE or PRAXIS II exam in the content area prior to beginning the internship. Also, ALL other coursework toward the degree must be successfully completed prior to the internship.
- A grade of C or better must be earned in all required courses, unless otherwise stated.

**GENERAL EDUCATION REQUIREMENTS** (31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is on the general education list of options and a requirement for your major, you must use it to fulfill the major requirement and make a different selection within the general education requirement

Course No	Title	Sem.hrs	Grade	Term/Trns
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**English** (6 semester hours, must receive a grade of "B" or better and must be completed by the time the student has 60 semester hours.)

ENGL 111	English Composition	3	_____	_____
ENGL 112	English Composition	3	_____	_____

**Math:** MATH 205 (3 semester hours) Must be taken after MATH 105. Must receive a grade of "C" or better, must be completed by the time the student has 60 semester hours.

MATH 205	Elements of Mathematics II	3	_____	_____
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**Humanities** (3 semester hours)

ENGL**	_____	_____	_____	_____
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\*Chosen from 131, 132, 150, 222, 231, 232, 254, 255, 261, 262

**Social and Behavioral Sciences** (6 semester hours)

*PSYC 233	Human Growth & Development	3	_____	_____
GEOG 103	World Regional Geography	3	_____	_____

\*Must earn a "B" or higher

Course No	Title	Sem.hrs	Grade	Term/Trns
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**Fine Arts** (3 semester hours)

**History** (3 semester hours)

HIST 131	United States History	3	_____	_____
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**Natural Sciences** (7 semester hours, one course must include a lab)

BIOL 101	General Human Biology	3	_____	_____
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BIOL 101L	General Human Biology Lab	1	_____	_____
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PHYS 100	Concepts of Physics	3	_____	_____
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**OR**

PHYS 105/105L	Physics by Inquiry and Lab	3	_____	_____
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**OTHER LOWER DIVISION REQUIREMENTS** (6 semester hours)

**Foreign Language:** Proficiency must be demonstrated in college or high school coursework. See note in Degree Requirements.

**Kinesiology** (3 semester hours)

KINE 100	Health and Wellness	1	_____	_____
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KINA 1	_____	1	_____	_____
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KINA 1	_____	1	_____	_____
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**Applied Studies** (3 semester hours)

SPCH 102	Speechmaking	3	_____	_____
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Must earn a "B" or higher

**MAJOR REQUIREMENTS: LIBERAL ARTS CORE**

(36 Semester Hours)

**Literacy:** (9 semester hours)

ENGL 240	Children's Literature	3	_____	_____
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ENGL 245	Imaginative Writing	3	_____	_____
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ENGL 343	Language Systems and	3	_____	_____
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	Linguistic Diversity	3	_____	_____
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**Mathematics:** (6 semester hours)

*MATH 105	Elements of Mathematics I	3	_____	_____
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MATH 301	Math for Elementary Teachers	3	_____	_____
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\*Must earn a "C" or higher

**Kinesiology:** (3 semester hours)

KINE 321	Physical Activity and	3	_____	_____
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	Health in the Classroom	3	_____	_____
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**Social Sciences:** (9 semester hours)

POLS 101	American Government	3	_____	_____
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ECON 201	Principles of Macroeconomics	3	_____	_____
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HIST 225	History of Colorado	3	_____	_____
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**Science:** (6 semester hours)

CHEM 100	Chemistry and Society	3	_____	_____
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GEOL 100	Survey of Earth Science	3	_____	_____
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**Art:** (3 semester hours)

ARTD 410*	Elementary Art Ed Methods	3	_____	_____
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\*Prerequisites: EDUC 211, EDUC 341, EDUC 343

Course No	Title	Sem.hrs	Grade	Term/Trns
<b>MATH CONTENT AREA</b> (15 semester hours)				
<b>Required Courses:</b> (12 semester hours)				
STAT 200	Probability and Statistics	3	_____	_____
*Select one of the following: CSCI 305 or CSCI 110				
*CSCI 305	Tech for Math Educators	3	_____	_____
<b>OR</b>				
*CSCI 110	Beginning Programming	3	_____	_____
*Select one of the following: MATH 151 or MATH 146				
*MATH 151	Calculus I	5	_____	_____
<b>OR</b>				
*MATH 146	Calculus for Biological Sciences	5	_____	_____
MATH 389	Explorations in Mathematics	1	_____	_____

Course No	Title	Sem.hrs	Grade	Term/Trns
<b>Concentration:</b> 3 semester hours chosen from Concentration Electives below (make sure all prerequisites are met):				
_____	_____	3	_____	_____
<b>Concentration:</b> (3 semester hours)				
Choose one course from the following:				
MATH 305 Euclidean Geometry (3)				
MATH 369 Discrete Structures (3)				
STAT 311 Statistical Methods (3)				
MATH 340 Ethnomathematics (3)				

**Elementary Education Requirements ( 38 semester hours – 840 Field Experience Hours)**

\*Prerequisites: ENGL 111, ENGL 112, SPCH 102, PSYC 233, EDUC 211 (all with a grade of B or better), and MATH 105 with grade of C or better and formal acceptance into the Teacher Education Program.

EDUC 211	Foundations of Education	2	_____	_____	2 semester hours	20 Field Experience Hours
EDUC 341*	Pedagogy & Assessment: K-6/Elementary	3	_____	_____	3 semester hours	20 Field Experience Hours
EDUC 343*	Teaching to Diversity	3	_____	_____	3 semester hours	20 Field Experience Hours
EDUC 374	Exceptional and ELL	3	_____	_____	3 semester hours	
EDUC 378	Technology for K-12 Educators	1	_____	_____	1 semester hour	
EDUC 441	Methods of Teaching Lang. & Literacy: EL	6	_____	_____	6 semester hours	60 Field Experience Hours
EDUC 451	Methods of Teaching Math: EC/EL	3	_____	_____	3 semester hours	60 Field Experience Hours
EDUC 461	Methods of Teaching Science & Social Science: EC/EL	3	_____	_____	3 semester hours	60 Field Experience Hours
EDUC 471	Educational Assessment	1	_____	_____	1 semester hours	
EDUC 475	Classroom Management	1	_____	_____	1 semester hour	
EDUC 499C	Teaching Internship/Colloq.: EL	12	_____	_____	12 semester hours	600 Field Experience Hours

**\*\*All EDUC prefix courses listed above must be completed with a grade of B or better to progress through the program sequence.**

## SUGGESTED COURSE SEQUENCING FOR A MAJOR IN LIBERAL ARTS MATH – LEADING TO ELEMENTARY TEACHER LICENSURE

This is a recommended sequence of course work. Certain courses may have prerequisites or are only offered during the Fall or Spring semesters. It is the student's responsibility to meet with the assigned advisor and check the 2 year course matrix on the Colorado Mesa website for course availability.

### FRESHMAN YEAR

Fall Semester	Hours	Spring Semester	Hours
ENGL 111	3	ENGL 112	3
POLS 101	3	CHEM 100	3
HIST 131	3	SPCH 102	3
PSYC 233	3	GEOL 100	3
PHYS 100	3	MATH 105	3
PHYS 105	2	KINA	1
PHYS 105L	1		16
KINA Activity	1		
	16		

### SOPHOMORE YEAR

Fall Semester	Hours	Spring Semester	Hours
BIOL 101	3	ENGL 240	3
BIOL 101L	1	HIST 225	3
ENGL ____	3	General Education Fine Arts	3
KINE 100 Health and Wellness	1	MATH 151	5
STAT 200	3	MATH 146	5
MATH 205	3	*EDUC 211	2
ECON 201	3		16
	17		

\*Must be taken prior to acceptance into the Center for Teacher Education. Offered in summer, fall and spring semesters.

### JUNIOR YEAR

Fall Semester	Hours	Spring Semester	Hours
EDUC 341	3	EDUC 374	3
EDUC 343	3	EDUC 378	1
MATH 301	3	*CSCI 305	3
KINE 320	3	CSCI 110	3
ENGL 245	3	ENGL 343	3
MATH Concentration Course*	3	ARTD 410	3
	18	GEOG 103	3
		*MATH 389	1
			17

\*Chosen from MATH 340, MATH 369, MATH 305, or STAT 311

\*Only offered in spring

### SENIOR YEAR

Fall Semester	Hours	Spring Semester	Hours
EDUC 441	6	EDUC 499C	12
EDUC 451	3	EDUC 475	1
EDUC 461	3		13
EDUC 471	1		
	13		

**POLICIES:**

1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the catalog for a complete list of graduation requirements.
2. You must turn in your "Intent to Graduate" form to the Registrar's Office **by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December.**
3. This program sheet must be submitted with your graduation planning sheet to your advisor during the **semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for Teacher Educationfall graduates.**
4. Your content advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature.
5. Finally, the Department Head or the department administrative assistant will take the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
6. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
7. **NOTE:** The semester before graduation, you will be required to take a Major Field Achievement Test (exit exam).